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after each period of delay, energizing a high frequency electromagnetic energy source to a first voltage;

acquiring a set of imaging data of a scan subject; and

after acquiring the set of imaging data, energizing the high frequency electromagnetic energy source to a second voltage until the period of delay after a next triggering pulse.

- 2. (Original) The method of claim wherein the second voltage is less than the first voltage.
  - 3. (Cancelled) The method of claim 2 wherein the second voltage is zero.
- 4. (Original) The method of daim 1 further comprising the step of:
  determining a primary and a secondary imaging stage from the set of cardiac signals;

energizing the high frequency electromagnetic energy projection source to the first voltage during the primary imaging stage; and

energizing the high frequency electromagnetic energy projection source to the second voltage during the secondary imaging stage.

- (Original) The method of claim 4 further comprising the step of filtering low energy high frequency electromagnetic energy projected to the scan subject to reduce high frequency electromagnetic energy exposure to the scan subject.
- 6. (Original) The method of claim 1 further comprising the step of determining a radiation dosage profile from the set of cardiac signals.
  - 7. (Original) ★ radiation emitting imaging system comprising:

a high frequency electromagnetic energy projection source configured to project high frequency energy toward a scan subject;

a detector assembly to receive high frequency electromagnetic energy attenuated by the scan subject and output a plurality of electrical signals indicative of the attenuation to a data acquisition system (DAS);

a control configured to:

determine a plurality of primary data acquisition stages and a plurality of secondary data acquisition stages;

energize the high frequency electromagnetic energy projection source to a first voltage during each data acquisition stage to acquire primary imaging data;

energize the high frequency electromagnetic energy projection source to a second voltage during each secondary data acquisition stage; and reconstruct an image of the scan subject from the imaging data acquired during each data acquisition stage.

- 8. (Original) The system of daim 7 further comprising a bowtie filter configured to filter a portion of the high frequency electromagnetic energy projected by the high frequency electromagnetic energy projection source to the scan subject.
- 9. (Original) The system of claim 7 wherein each data acquisition stage is followed by a secondary data acquisition stage.
- 10. (Cancelled) The system of claim-7-wherein the control is further configured to drive the high frequency electromagnetic energy projection source to a zero voltage during each non-data acquisition stage.
- 11. (Original) The system of claim 7 wherein the plurality of secondary data acquisition stages includes a plurality of non-data acquisition stages.
- 12. (Original) The system of claim 7 further comprising a plurality of EKG sensors configured to acquire a set of EKG signals of a cardiac region of the scan subject.
- 13. (Original) The system of claim 12 wherein the control is further configured to determine a data acquisition stage and a secondary acquisition system from the set of EKG signals.
- 14. (Original) The system of claim 13 wherein the control is further comprised to determine a number of subsets from the set of EKG signals and determine a triggering pulse

within each subset and energize the high frequency electromagnetic energy projection source to the first voltage after a delay of the triggering pulse.

15. (Original) A computer readable storage medium having a computer program stored thereon and representing a set of instructions that when executed by a computer causes the computer to:

analyze a set of cardiac motion signals acquired from a set of EKG sensors from a torso region of a scan subject;

determine from the set of cardiac motion signals a number of primary data acquisition stages and a number of secondary acquisition stages;

transmit a first voltage modulation signal to a voltage source configured to energize an x-ray projection source used to project x-rays to the scan subject for data acquisition, the first voltage modulation signal configured to drive the voltage source to a first voltage for each primary data acquisition stage;

acquire a set of imaging data and

transmit a second voltage modulation signal to the voltage source, the second voltage modulation signal being configured to drive the voltage source to a second voltage for each secondary acquisition stage.

- 16. (Original) The computer readable storage medium of claim 15 wherein the set of instructions further causes the computer to determine a dosage profile from the set of EKG signals and modulate the voltage source according to the dosage profile.
- 17. (Original) The computer readable storage medium of claim 15 wherein the second voltage is less than the first voltage.
- 18. (Cancelled) The computer readable storage medium of claim 17 wherein the second voltage is zero.
- 19. (Original) The computer readable storage medium of claim 15 wherein the set of instructions further causes the computer to reduce x-ray projections to the scan subject during the number of secondary acquisition stages.



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20. (Original) The computer readable storage medium of claim 15 wherein the set of instructions further causes the computer to determine the first voltage from a set of imaging parameters on a per imaging session basis.

21. (Original) The computer readable storage medium of claim 15 wherein the number of secondary acquisition states includes a number of non-data acquisition stages.

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22.	(New) A method of cardiac CT imaging comprising the steps of:
	acquiring a series of cardiac signals defining a number of cardiac cycles;
	determining a primary acquisition period and a secondary acquisition period for
each cardiac	cycle;
	energizing an x-ray source to a default, non-zero voltage:
	initiating CT data acquisition for the number of cardiac cycles;
	energizing the x-ray/source to a primary voltage during CT data acquisition for
the primary acquisition periods; and	
and a new communication control of the control of t	returning the x-ray source to the default, non-zero voltage during CT data
acquisition for the secondary acquisition periods.	
23.	(New) The method of claim 22 wherein the primary voltage includes a maximum
voltage.	
24.	(New) A radiation emitting imaging system comprising:
	a high frequency electromagnetic energy projection source configured to project
high frequency energy toward a scan subject:	
	a detector assembly to receive high frequency electromagnetic energy
attenuated by	the scan subject and output a plurality of electrical signals indicative of the
attenuation to	a data acquisition system (DAS);
	a control configured to:
	model data acquisition for a heart of the scan subject based on a
series	of cardiac signals defining a number of cardiac cycles of the heart:
	modulate voltage of the high frequency electromagnetic energy
project	ion source between a first voltage and a second voltage during each
	c cycle: and

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reconstruct an image of the scan subject for multiple phases of each cardiac cycle.

25. (New) The system of claim 24 wherein the first voltage includes a default voltage and the second voltage includes a maximum voltage.

26. (New) The system of claim 25 wherein the default voltage includes a minimum voltage required to acquire data.